

CLAIMS

1. An alkaline storage battery having a positive electrode, a negative electrode, a separator, and an alkaline electrolyte,

wherein the separator comprises:

5 a nonwoven fabric made of a plurality of papermaking web layers arranged in laminated form, and

the separator satisfies the relation of $8.8 \leq A \times B \times C \leq 15.2$, where A is an area density (g/m^2), B is a specific surface area (m^2/g), and C is a thickness (mm).

10

2. The alkaline storage battery according to claim 1,

wherein the nonwoven fabric forming the separator is composed of a plurality of papermaking web layers different in at least any one of the area density, the specific surface area, the thickness, and sulfonation degree.

15

3. The alkaline storage battery according to claim 1 or 2,

wherein the liquid amount of the electrolyte is in a range of 3.0 g or more to 3.5 g or less per 1 Ah of theoretical capacity of the positive electrode.

20

4. The alkaline storage battery according to any one of claims 1 to 3,

wherein the separator is sulfonated to be hydrophilic by sulfuric anhydride.

25

5. The alkaline storage battery according to claim 4,

wherein the papermaking web layers have at least two types of fibers different in sulfonation degree.

6. The alkaline storage battery according to any one of claims 1 to 5,

wherein each of the plurality of papermaking web layers contains split type compound fibers by 30 wt.% or more to 50 wt.% or less.

7. The alkaline storage battery according to claim 6,

5 wherein the split type compound fibers are composed of at least two types of fibers selected from among polypropylene, polyethylene, polystyrene, polymethyl pentene, and polybutylene.